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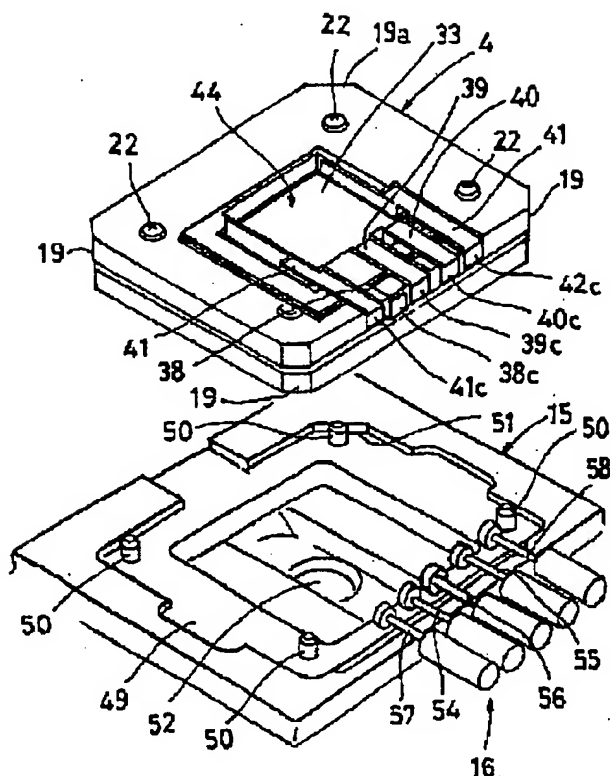
APPLICATION DATE : 05-07-97
APPLICATION NUMBER : 09194942

APPLICANT : HORIBA LTD;

INVENTOR : NAKAO MOTOI;

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TITLE : LIGHT SCANNING TYPE
TWO-DIMENSIONAL
CONCENTRATION DISTRIBUTION
MEASURING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To simply and accurately measure the distribution along the electric field direction of an electrophoretic material by assembling a counter electrode, a reference electrode, and electric field generating electrodes for causing electrophoresis in a sensor cassette for use.

SOLUTION: A sensor cassette 4 is set on a sensor cassette reception section 15, then the door of a cassette insertion port is closed. Contact probes 54-58 in a measuring device body are set to the released state separated from the contact sections 38c-42c of a working electrode 38, counter electrode 39, reference electrode 40, and electrophoretic electrodes 41, 42 of the sensor cassette 4. A switch is operated to move a slide base, the contact probes 54-58 are brought into contact with the contact sections 38c-42c of the working electrode 38, counter electrode 39, reference electrode 40, and electrophoretic electrode 41, 42 of the sensor cassette 4 at the prescribed contact pressure respectively into the measurable state. The speed of the electrophoretic colloidal grains electrophoretically migrating in the electric field is measured by analysing the images before and after electrophoresis. The result is processed by a computer, and is displayed.

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